

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An LED, comprising:

a first gallium nitride layer;

a first electrode ~~provided~~ at one portion of and above the first gallium nitride layer;

an active layer ~~provided~~ above the first gallium nitride layer;

a second gallium nitride layer ~~provided~~ above the active layer; [[and]]

a plurality of transparent electrodes ~~formed~~ above the second gallium nitride layer,

wherein ~~at least~~ one of the plurality of transparent electrodes is electrically connected to, and is physically isolated from, another of the plurality of transparent electrodes;

a second electrode above the second gallium nitride layer; and

a plurality of connection units, each connection unit electrically and commonly connecting a respective one of the plurality of transparent electrodes with the second electrode,

wherein the plurality of connection units are formed of a material different from the plurality of transparent electrodes.

2-17. (Cancelled)

18. (Currently Amended) An LED, comprising:

a substrate;

a first gallium nitride layer ~~formed~~ above the substrate;

an active layer ~~formed~~ above the second gallium nitride layer;

a second gallium nitride layer ~~formed~~ above the active layer;

a first electrode ~~formed~~ above the first gallium nitride layer;
a second electrode ~~formed~~ above the second gallium nitride layer; and
a transparent electrode above the second gallium nitride layer,
wherein the transparent electrode comprises a plurality of patterns,
wherein one of the plurality of patterns is physically isolated from another of the plurality
of patterns, and
wherein at least two of the plurality of patterns have striped-shapes.
~~a plurality of transparent electrodes formed above the second gallium nitride layer,~~
~~wherein at least one of the plurality of transparent electrodes is electrically connected to, and is~~
~~physically isolated from, another of the plurality of transparent electrodes; and~~
~~a plurality of connection units, each connection unit connecting a respective one of the~~
~~plurality of transparent electrodes with the second electrode,~~
~~wherein the plurality of transparent electrodes are formed of different material from the~~
~~electrical connection units.~~

19. (Cancelled)

20. (Currently Amended) The LED according to claim 18, wherein the plurality of
patterns comprise at least three patterns.

~~transparent electrodes comprise at least three transparent electrodes.~~

21-25. (Cancelled)

26. (Currently Amended) The LED according to ~~claim 5~~claim 1, wherein the plurality of connection units directly connect the second electrode with a respective one of the plurality of transparent electrodes.

27. (Currently Amended) The LED according to claim 1~~claim 5~~, wherein the plurality of transparent electrodes, the second electrode and the plurality of connection units are formed directly on the second gallium nitride layer.

28. (Currently Amended) The LED according to claim 18, wherein the plurality of patterns are formed directly above the second gallium nitride layer.

~~transparent electrodes, the second electrode and the plurality of connection units are formed directly on the second gallium nitride layer.~~

29. (Previously Presented) The LED according to claim 1, wherein the plurality of transparent electrodes are co-planar.

30. (Cancelled)

31. (Currently Amended) The LED according to claim 1, wherein the plurality of connection units are formed of metal films.

~~transparent electrodes are each connected to a P-type electrode via corresponding metal films.~~

32. (Currently Amended) The LED according to claim 1, wherein the plurality of transparent electrodes are disposed ~~directly on~~directly above corresponding physically separated locations of a surface of the second gallium nitride layer.

33. (New) The LED according to claim 18, wherein at least two of the plurality of patterns are parallel to each other.

34. (New) The LED according to claim 18, wherein the at least two of the plurality of patterns having striped-shapes are perpendicular to an imaginary line between the first electrode and the second electrode.

35. (New) An LED, comprising:
an N-type layer including gallium nitride;
a P-type layer including gallium nitride;
an active layer including Indium gallium nitride between the N-type layer and the P-type layer, wherein the active layer includes a quantum well structure; and
a plurality of transparent electrodes directly above the P-type layer, wherein one of the plurality of transparent electrodes is physically isolated from another of the plurality of transparent electrodes.

36. (New) The LED according to claim 35, further comprising:
a first electrode above the N-type layer; and

a second electrode above the P-type layer.

37. (New) The LED according to claim 36, wherein at least a portion of the second electrode is directly contact with the P-type layer.

38. (New) The LED according to claim 36, wherein the second electrode and the plurality of transparent electrodes are in contact with the P-type layer.

39. (New) The LED according to claim 35, wherein an exposed surface of the P-type layer between the plurality of transparent electrodes has a slit shape.

40. (New) The LED according to claim 35, wherein at least two of the plurality of transparent electrodes have striped-shapes.

41. (New) The LED according to claim 35, wherein at least two of the plurality of transparent electrodes are parallel to each other.

42. (New) The LED according to claim 40, wherein the at least two of the plurality of transparent electrodes having striped-shapes are perpendicular to an imaginary line between the first electrode and the second electrode.

43. (New) The LED according to claim 36, wherein a side surface of the one of the plurality of transparent electrodes is contacted with a side surface of the second electrode.

44. (New) The LED according to claim 35, further comprising:

a metal film disposed between the plurality of transparent electrodes and directly contacted with the P-type layer.